

AUTOMATIC RELEASING-TYPE ROLLING HEAD FOR
FORMING TAPERED THREAD ON PIPE

ΣΠολα 1 This application is a 35 USC 371 of PCT/JP03/15554 filed 12/04/2003.
1-15-08 Field of the Invention

5 This invention relates to an automatic releasing-type rolling head for forming a tapered thread on a pipe. Especially, this invention relates to an automatic releasing-type rolling head for forming a tapered thread on a pipe, in which a tapered thread is formed on a steel
10 pipe for piping by rolling and the rolling rollers are automatically released from the to-be-rolled pipe after the rolling operation is completed.

Prior Art

15 Conventionally, when steel pipes for piping are connected through a pipe joint, a tapered thread is formed on an end of the steel pipe. There are known two tapered thread-forming methods, i.e., a cutting method and a plastic deformation forming method. The plastic
20 deformation forming is carried out, for example, by a thread-rolling method using thread-forming rollers. Figs. 10 to 12 show an example of a thread-rolling head which is used in the thread rolling method. The thread rolling head shown in Figs. 10 to 12 comprises a thread
25 rolling mechanism, an automatic rolling roller retracting mechanism, a thread diameter adjusting mechanism and a mechanism for cutting an outer diameter of a to-be-rolled pipe.

As shown in Figs. 10 and 11, the thread rolling
30 mechanism has a housing 1 and a plurality of thread rolling rollers 2. The housing 1 is comprised of a front closure 1a, a rear closure 1b and a cylindrical intermediate part 1c through which the front closure 1a and the rear closure 1b are connected to each other. The
35 intermediate part 1c is provided with a cam ring 3 which rotates in contact with the inner surface of the intermediate part 1c. Roller shafts 4 are inserted in